

Exhibit 4

Independent Claims of U.S. Patent No. 7,137,775

1. A *fan array* fan section in an air-handling system comprising:

- (a) at least six fan units;
- (b) said at least six fan units arranged in a *fan array*;
- (c) an air-handling compartment within which said *fan array* of fan units is positioned; and

(d) **an *array controller* for controlling said at least six fan units to run at *substantially peak efficiency* by strategically turning selective ones of said at least six fan units on and off,**

wherein each fan unit has a *peak efficiency* operating range outside of which it operates at a reduced *efficiency*, and wherein said *array controller* is programmed to operate said at least six fan units at *substantially peak efficiency* by strategically turning off at least one fan unit operating at reduced *efficiency* and running the remaining fan units within said *peak efficiency* operating range.

16. A *fan array* fan section in an air-handling system comprising:

- (a) a plurality of independently controllable fan units, each fan unit comprising an inlet cone, a fan, and a motor;
- (b) said plurality of fan units arranged in a *fan array*;
- (c) an air-handling compartment within which said *fan array* of fan units is positioned;

(d) **an *array controller* for controlling said plurality of fan units to run at *substantially peak efficiency* by strategically turning selective ones of said plurality of fan units on and off; wherein**

(e) each of said plurality of fan units has a fan wheel diameter, wherein spacing between said plurality of fan units is less than 60% of said fan wheel diameter.

Independent Claims of U.S. Patent No. 7,179,046

1. A *fan array* fan section in an air-handling system comprising:

- (a) an air-handling compartment;
- (b) a plurality of fan units;
- (c) said plurality of fan units arranged in a *fan array*;
- (d) said *fan array* positioned within said air-handling compartment;

(e) said air-handling compartment associated with a structure such that said air-handling system conditions the air of said structure; and

(f) a *control system* for operating said plurality of fan units at *substantially peak efficiency* by strategically turning on and off selective ones of said plurality of fan units.

15. A *fan array* fan section in an air-handling system comprising:

- (a) an air-handling compartment;
- (b) a plurality of fan units;
- (c) said plurality of fan units arranged in a *fan array*;
- (d) said *fan array* positioned within said air-handling compartment;

(e) said air-handling compartment association with a structure such that the said air-handling system conditions the air of said structure; and

(f) a *control system* for controlling said plurality of fan units, said *control system* allowing control of the speed of the fan units in said plurality of fan units such that they run at *substantially peak efficiency*.

19. A *fan array* fan section in an air-handling system comprising:

- (a) an air-handling compartment;
- (b) a plurality of independently controllable fan units;
- (c) said plurality of fan units arranged in a *fan array*;
- (d) said *fan array* positioned within said air-handling compartment;
- (e) said air-handling compartment associated with a structure such that the said air-handling system conditions the air of said structure; and
- (f) a *control system* for controlling the speed of the fan units in said plurality of fan units such that they run at *substantially peak efficiency*.**